

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 16:50:34 ON 14 JAN 2010

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 16:51:05 ON 14 JAN 2010

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JAN 2010 HIGHEST RN 1202161-01-0

DICTIONARY FILE UPDATES: 13 JAN 2010 HIGHEST RN 1202161-01-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

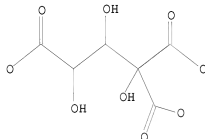
Uploading C:\Program Files\Stnexp\Queries\10528356-acid-2.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:51:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 105 TO ITERATE

100.0% PROCESSED

105 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1486 TO 2714  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full  
FULL SEARCH INITIATED 16:51:30 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 2243 TO ITERATE

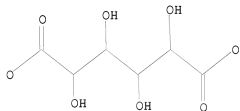
100.0% PROCESSED 2243 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=>  
Uploading C:\Program Files\Stnexp\Queries\10528356-acid-1.str

L4 STRUCTURE UPLOADED

=> d l4  
L4 HAS NO ANSWERS  
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4  
SAMPLE SEARCH INITIATED 16:51:56 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1317 TO ITERATE

100.0% PROCESSED 1317 ITERATIONS 35 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 24163 TO 28517  
PROJECTED ANSWERS: 346 TO 1054

L5 35 SEA SSS SAM L4

=> s l4 full  
FULL SEARCH INITIATED 16:52:00 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 26037 TO ITERATE

100.0% PROCESSED 26037 ITERATIONS 775 ANSWERS  
SEARCH TIME: 00.00.01

L6 775 SEA SSS FUL L4

=> file caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 383.08     | 383.30  |

FILE 'CAPLUS' ENTERED AT 16:52:05 ON 14 JAN 2010  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 14 Jan 2010 VOL 152 ISS 3  
FILE LAST UPDATED: 13 Jan 2010 (20100113/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3  
L7 1 L3

=> s l6  
L8 2450 L6

=> d l7 ibib abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:218548 CAPLUS

DOCUMENT NUMBER: 140:277695

TITLE: Process for preparation of a polycarboxylic composition comprising an electrochemical oxidation stage of a monosaccharide composition

INVENTOR(S): Marsais, Francis; Feasson, Christian; Queguiner, Guy; Ibert, Mathias; Comini, Serge; Grossel, Jean Marc

PATENT ASSIGNEE(S): Roquette Freres, Fr.

SOURCE: Fr. Demande, 31 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| -----      | ---- | -----    | -----           | -----    |
| FR 2844525 | A1   | 20040319 | FR 2002-11546   | 20020918 |

FR 2844525 B1 20050603  
 WO 2004027118 A1 20040401 WO 2003-FR2702 20030912

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003276334 A1 20040408 AU 2003-276334 20030912  
 EP 1540038 A1 20050615 EP 2003-797338 20030912

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 20050252785 A1 20051117 US 2005-528356 20050318

PRIORITY APPLN. INFO.: FR 2002-11546 A 20020918  
 WO 2003-FR2702 W 20030912

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The aim of present invention is a method of preparation of polycarboxylic composition, by electrochem. oxidation of monosaccharide carried out in absence of sodium hypochlorite and in presence of an oxide of amine and using an anode based on carbonaceous material. The aforementioned anode is selected in the group including carbon felts and the activated granulated carbon. The electrochem. oxidation can advantageously be led to pH ranging between 10 and 14.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s electrochemical oxidation  
 182587 ELECTROCHEMICAL  
 521804 OXIDATION  
 L9 3984 ELECTROCHEMICAL OXIDATION  
 (ELECTROCHEMICAL(W)OXIDATION)

=> s amine oxide  
 314414 AMINE  
 2056933 OXIDE  
 L10 3775 AMINE OXIDE  
 (AMINE(W)OXIDE)

=> s l9 and l10  
 L11 1 L9 AND L10

=> s l11 not l7  
 L12 0 L11 NOT L7

=> s monosaccharide  
 L13 13596 MONOSACCHARIDE

=> s l13 and l9  
 L14 1 L13 AND L9

=> s l14 not l7  
 L15 0 L14 NOT L7

=> E MARSAIS FRANCIS/AU 25  
 E1 32 MARSAIS F/AU

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E2          3      MARSAIS FLORENCE/AU
E3        108 --> MARSAIS FRANCIS/AU
E4          1      MARSAIS J/AU
E5          1      MARSAIS OLIVIER/AU
E6         15      MARSAIS P/AU
E7          2      MARSAIS PAUL/AU
E8          3      MARSAS J/AU
E9          1      MARSAS JAN/AU
E10         3      MARSAS JIRI/AU
E11         1      MARSAS T L/AU
E12         2      MARSAS Z/AU
E13         5      MARSAS ZLATEK/AU
E14         1      MARSASOV B A/AU
E15         1      MARSASOV G P/AU
E16        39      MARSASOV V A/AU
E17         2      MARSASOVA LYUDMILA I/AU
E18         6      MARSASOVA N V/AU
E19         1      MARSASOVA V I/AU
E20        108     MARSAS A/AU
E21         5      MARSAS AGUSTI/AU
E22         3      MARSAS AGUSTIN/AU
E23         7      MARSAS ALBERTO/AU
E24         1      MARSAS ALONSO CARLOS/AU
E25         1      MARSAS ANDREU/AU

=> S (E1 OR E3)
      32 "MARSAIS F"/AU
      108 "MARSAIS FRANCIS"/AU
L16    140 ("MARSAIS F"/AU OR "MARSAIS FRANCIS"/AU)

=> E FEASSON CHRISTIAN/AU 25
E1          2      FEASLY CHARLES F/AU
E2          2      FEASSON C/AU
E3        19 --> FEASSON CHRISTIAN/AU
E4          1      FEASSON JULIEN/AU
E5          5      FEASSON L/AU
E6          3      FEASSON LEONARD/AU
E7          3      FEAST A A J/AU
E8          4      FEAST ALAN A J/AU
E9          2      FEAST ALAN ARTHUR JOHN/AU
E10         1      FEAST ALAN J/AU
E11         1      FEAST E C/AU
E12         2      FEAST GEORGE C/AU
E13         3      FEAST JAMES W/AU
E14         1      FEAST JIM/AU
E15         2      FEAST M/AU
E16         1      FEAST M M/AU
E17        111     FEAST M W/AU
E18         2      FEAST MARIEKE/AU
E19        17      FEAST MICHAEL/AU
E20         4      FEAST MICHAEL ALAN JOHN/AU
E21        13      FEAST MICHAEL W/AU
E22         5      FEAST N A/AU
E23         1      FEAST NICHOLAS A/AU
E24         5      FEAST S/AU
E25        11      FEAST SASKIA/AU

=> S (E2 OR E3)
      2 "FEASSON C"/AU
      19 "FEASSON CHRISTIAN"/AU
L17    21 ("FEASSON C"/AU OR "FEASSON CHRISTIAN"/AU)

=> E QUEGUINER GUY/AU 25

```

|     |     |                            |
|-----|-----|----------------------------|
| E1  | 1   | QUEGUINER FRANCOIS/AU      |
| E2  | 113 | QUEGUINER G/AU             |
| E3  | 222 | ---> QUEGUINER GUY/AU      |
| E4  | 2   | QUEGUINER I/AU             |
| E5  | 5   | QUEGUINER ISABELLE/AU      |
| E6  | 1   | QUEGUINER J M/AU           |
| E7  | 6   | QUEGUINER LAURENCE/AU      |
| E8  | 1   | QUEGUINER MORGAN/AU        |
| E9  | 2   | QUEGUINER S/AU             |
| E10 | 1   | QUEGUINER STEPHANE/AU      |
| E11 | 9   | QUEHEILLALT D T/AU         |
| E12 | 1   | QUEHEILLALT DOUGLAS/AU     |
| E13 | 20  | QUEHEILLALT DOUGLAS T/AU   |
| E14 | 1   | QUEHEILLALT DOUGLAS TED/AU |
| E15 | 1   | QUEHEN CINDY/AU            |
| E16 | 2   | QUEHEN JACQUES/AU          |
| E17 | 1   | QUEHEN LOIC/AU             |
| E18 | 2   | QUEHEN M/AU                |
| E19 | 2   | QUEHEN S/AU                |
| E20 | 1   | QUEHEN SABINE/AU           |
| E21 | 9   | QUEHENBERGER F/AU          |
| E22 | 13  | QUEHENBERGER FRANZ/AU      |
| E23 | 1   | QUEHENBERGER H/AU          |
| E24 | 1   | QUEHENBERGER JOHANNES/AU   |
| E25 | 6   | QUEHENBERGER O/AU          |

=> S (E2 OR E3)

|     |     |  |
|-----|-----|--|
|     | 113 | "QUEGUINER G"/AU                         |
|     | 222 | "QUEGUINER GUY"/AU                       |
| L18 | 335 | ("QUEGUINER G"/AU OR "QUEGUINER GUY"/AU) |

=> E IBERT MATHIAS/AU 25

|     |    |                                  |
|-----|----|----------------------------------|
| E1  | 1  | IBERT EDWARD ROBERT/AU           |
| E2  | 1  | IBERT J/AU                       |
| E3  | 6  | ---> IBERT MATHIAS/AU            |
| E4  | 1  | IBERTI U/AU                      |
| E5  | 3  | IBERTI UBERTO/AU                 |
| E6  | 1  | IBERTIS ACUNA MARIA S/AU         |
| E7  | 1  | IBERTIS ACUNA MARIA SOFIA/AU     |
| E8  | 1  | IBERTIS ACUNA MARIA TERESA/AU    |
| E9  | 1  | IBES B V/AU                      |
| E10 | 1  | IBES JUNG M/AU                   |
| E11 | 1  | IBES W/AU                        |
| E12 | 1  | IBES WILHELMUS JOHANNES MARIA/AU |
| E13 | 1  | IBES WIM J M/AU                  |
| E14 | 1  | IBETTSON J/AU                    |
| E15 | 4  | IBEWIRO B/AU                     |
| E16 | 1  | IBEWIRO E B/AU                   |
| E17 | 1  | IBEWUIKE J C/AU                  |
| E18 | 2  | IBEWUIKE JOSEPH C/AU             |
| E19 | 1  | IBEWUILKE J C/AU                 |
| E20 | 1  | IBEY B L/AU                      |
| E21 | 1  | IBEY BENNETT/AU                  |
| E22 | 16 | IBEY BENNETT L/AU                |
| E23 | 1  | IBEY BENNETT LUKE/AU             |
| E24 | 1  | IBEY REBECCA E M/AU              |
| E25 | 1  | IBEZIAKO CH/AU                   |

=> S (E3)

|     |   |                      |
|-----|---|----------------------|
| L19 | 6 | ("IBERT MATHIAS"/AU) |
|-----|---|----------------------|

=> E COMNI SERGE/AU 25

|    |   |                    |
|----|---|--------------------|
| E1 | 3 | COMNEA VICTORIA/AU |
|----|---|--------------------|

E2 1 COMNEA VICTORIA RO/AU  
 E3 0 --> COMNI SERGE/AU  
 E4 3 COMNICK JEFFREY/AU  
 E5 1 COMNICK R W/AU  
 E6 1 COMNICK RICHARD W/AU  
 E7 1 COMNIELLIS CHRISTOS/AU  
 E8 1 COMNINELL CH/AU  
 E9 55 COMNINELLIS C/AU  
 E10 88 COMNINELLIS CH/AU  
 E11 102 COMNINELLIS CHRISTOS/AU  
 E12 1 COMNINELLIS CLERISTOS/AU  
 E13 1 COMNINELLIS THALIA/AU  
 E14 2 COMNINOS A C/AU  
 E15 1 COMNINOS ALEXANDER/AU  
 E16 3 COMNINOS FRANCISCO C M/AU  
 E17 1 COMNINOS H/AU  
 E18 2 COMNINOS HELEN/AU  
 E19 3 COMNINOS JOHN S/AU  
 E20 1 COMNINOS STAMATIS C/AU  
 E21 1 COMNINO M/AU  
 E22 3 COMNINO MARIA/AU  
 E23 1 COMNINO PH/AU  
 E24 2 COMNOIU MARGARETA/AU  
 E25 1 COMO A/AU

=> E COMINI SERGE/AU 25

E1 1 COMINI ROBERTO/AU  
 E2 6 COMINI S/AU  
 E3 7 --> COMINI SERGE/AU  
 E4 1 COMINI SILVIA/AU  
 E5 1 COMINI T/AU  
 E6 7 COMINO A/AU  
 E7 2 COMINO A M/AU  
 E8 7 COMINO ALBERTO/AU  
 E9 11 COMINO ALEKSANDRA/AU  
 E10 2 COMINO ALESSIA/AU  
 E11 1 COMINO ALMENARA PABLO IGNACIO/AU  
 E12 1 COMINO ANA MARIA/AU  
 E13 4 COMINO C/AU  
 E14 1 COMINO CARLO/AU  
 E15 11 COMINO CINZIA/AU  
 E16 3 COMINO DELGADO R/AU  
 E17 6 COMINO DELGADO RAFAEL/AU  
 E18 2 COMINO E/AU  
 E19 1 COMINO EDMONDO/AU  
 E20 2 COMINO ELENA/AU  
 E21 2 COMINO EVA/AU  
 E22 3 COMINO G/AU  
 E23 12 COMINO GIOVANNI/AU  
 E24 2 COMINO ILARIA/AU  
 E25 1 COMINO ISABEL/AU

=> S (E2 OR E3)

6 "COMINI S"/AU  
 7 "COMINI SERGE"/AU  
 L20 13 ("COMINI S"/AU OR "COMINI SERGE"/AU)

=> E GROSSEL JEAN MARC/AU 25

E1 1 GROSSEL HUBERT/AU  
 E2 1 GROSSEL J M/AU  
 E3 1 --> GROSSEL JEAN MARC/AU  
 E4 20 GROSSEL M C/AU  
 E5 3 GROSSEL MARTHA/AU

E6 14 GROSSEL MARTHA J/AU  
 E7 65 GROSSEL MARTIN C/AU  
 E8 4 GROSSEL MARTIN CHRISTOPHER/AU  
 E9 9 GROSSEL P/AU  
 E10 6 GROSSEL PH/AU  
 E11 15 GROSSEL PHILIPPE/AU  
 E12 5 GROSSEL S S/AU  
 E13 3 GROSSEL STANLEY/AU  
 E14 48 GROSSEL STANLEY S/AU  
 E15 1 GROSSEL STANLY S/AU  
 E16 2 GROSSELCK J/AU  
 E17 1 GROSSELE BARBARA/AU  
 E18 1 GROSSELEIL JACQUES/AU  
 E19 1 GROSSELET OLIVIER/AU  
 E20 1 GROSSELFINGER F B/AU  
 E21 5 GROSSELFINGER FREDERICK B/AU  
 E22 1 GROSSELFINGER H/AU  
 E23 2 GROSSELFINGER HORST/AU  
 E24 1 GROSSELFINGER J/AU  
 E25 1 GROSSELFINGER KEVIN/AU

=> S (E2 OR E3)

1 "GROSSEL J M"/AU  
 1 "GROSSEL JEAN MARC"/AU  
 L21 2 ("GROSSEL J M"/AU OR "GROSSEL JEAN MARC"/AU)

=> s l21 or l20 or l19 or l18 or l17 or l16

L22 432 L21 OR L20 OR L19 OR L18 OR L17 OR L16

=> s l22 and oxidation

521804 OXIDATION  
 L23 11 L22 AND OXIDATION

=> d l23 ibib abs 1-

YOU HAVE REQUESTED DATA FROM 11 ANSWERS - CONTINUE? Y/(N):y

L23 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2008:349680 CAPLUS

DOCUMENT NUMBER: 148:308572

TITLE: Process for preparation of a D-glucuronic acid  
 derivatives via electrochemical oxidation  
 reaction of glycosides

INVENTOR(S): Fuertes, Patrick; Ibert, Mathias

PATENT ASSIGNEE(S): Roquette Freres, Fr.

SOURCE: Fr. Demande, 32pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| FR 2905950   | A1   | 20080321 | FR 2006-8189    | 20060919 |
| WO 2008034990  | A1   | 20080327 | WO 2007-FR51911 | 20070911 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW<br>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, |      |          |                 |          |



IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: FR 2006-8189 A 20060919  
OTHER SOURCE(S): CASREACT 148:308572  
AB Process for the preparation of a glucuronic acid via electrochem.-oxidation at  
a temperature lower than 20°, preferably lower than 16° and more  
preferentially between 1° and 14°.  
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 2004:642056 CAPLUS  
DOCUMENT NUMBER: 141:314300  
TITLE: Syntheses of sulfoxide derivatives in the benzodiazine  
series. Diazines. Part 37  
AUTHOR(S): Le Fur, Nicolas; Mojovic, Ljubica; Turck, Alain; Ple,  
Nelly; Queguiner, Guy; Reboul, Vincent;  
Perrio, Stephane; Metzner, Patrick  
CORPORATE SOURCE: Laboratoire de Chimie Organique Fine et  
Heterocyclique, IRCOF-INSA de Rouen, UMR CNRS 6014,  
Mont-Saint-Aignan, F-76131, Fr.  
SOURCE: Tetrahedron (2004), 60(36), 7983-7994  
CODEN: TETRAB; ISSN: 0040-4020  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 141:314300  
AB Syntheses of new sulfinylcinnolines, quinoxalines, quinazolines and  
phthalazines have been investigated starting from the appropriate  
halobenzodiazine derivs. The latter were converted in one step to the  
corresponding sulfonyl benzodiazines which upon oxidation with m-CPBA led to  
the corresponding sulfoxide derivs. of benzodiazines in moderate to good  
yields. In parallel to this study, an improved method for the synthesis  
of 2-(methylsulfinyl)quinoxaline starting from 2-(thio)quinoxaline is also  
described and in the quinazoline series a synthetic route has been  
developed to prepare 2-tert-butyl-5-(phenylsulfinyl)quinazoline with  
satisfactory yield as well as 2-tert-butyl-5-(tert-butylsulfinyl)-4(3H)-  
quinazolinone and 2-tert-butyl-8-(tert-butylsulfinyl)-4(3H)-quinazolinone.  
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD  
(5 CITINGS)  
REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 2004:218548 CAPLUS  
DOCUMENT NUMBER: 140:277695  
TITLE: Process for preparation of a polycarboxylic  
composition comprising an electrochemical  
oxidation stage of a monosaccharide  
composition  
INVENTOR(S): Marsais, Francis; Feasson, Christian  
; Queguiner, Guy; Ibert, Mathias;  
Comini, Serge; Grossel, Jean Marc  
PATENT ASSIGNEE(S): Roquette Freres, Fr.  
SOURCE: Fr. Demande, 31 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE       |
|------------------------|--|----------|-----------------|------------|
| FR 2844525             | A1   | 20040319 | FR 2002-11546   | 20020918   |
| FR 2844525             | B1   | 20050603 |                 |            |
| WO 2004027118          | A1   | 20040401 | WO 2003-FR2702  | 20030912   |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LM, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |            |
| RW:                    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |            |
| AU 2003276334          | A1   | 20040408 | AU 2003-276334  | 20030912   |
| EP 1540038             | A1   | 20050615 | EP 2003-797338  | 20030912   |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |          |                 |            |
| US 20050252785         | A1   | 20051117 | US 2005-528356  | 20050318   |
| PRIORITY APPLN. INFO.: |  |          | FR 2002-11546   | A 20020918 |
|                        |  |          | WO 2003-FR2702  | W 20030912 |

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The aim of present invention is a method of preparation of polycarboxylic composition, by electrochem. oxidation of monosaccharide carried out in absence of sodium hypochlorite and in presence of an oxide of amine and using an anode based on carbonaceous material. The aforementioned anode is selected in the group including carbon felts and the activated granulated carbon. The electrochem. oxidation can advantageously be led to pH ranging between 10 and 14.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2003:580430 CAPLUS

DOCUMENT NUMBER: 139:292428

TITLE: Selective access and full characterization of mono-acidic permethylated  $\beta$ -cyclodextrin derivatives and their methyl esters

AUTHOR(S): Tisse, S.; Peulon-Agasse, V.; Oulyadi, H.; Marsais, F.; Combret, J. C.

CORPORATE SOURCE: Sciences et Methodes Separatives, UPRES EA 2659, Universite de Rouen-INSA de Rouen, Mont Saint Aignan, F-76821, Fr.

SOURCE: Tetrahedron: Asymmetry (2003), 14(15), 2259-2266  
CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:292428

AB Three acidic derivs. of permethylated  $\beta$ -cyclodextrin, 21-O-carboxymethyl-2II-VII, 3I-VII, 6I-VII-eicosa-O-methyl-cyclomaltoheptaose, 6I-O-carboxymethyl-2I-VII, 3I-VII, 6II-VII-eicosa-O-methyl-cyclomaltoheptaose, 6I-desoxy-6I-carboxy-2I-VII, 3I-VII, 6II-VII-eicosa-O-methyl-cyclomaltoheptaose and the corresponding Me esters have been synthesized with good yields starting from mono-hydroxy permethylated  $\beta$ -CD prepared via tert-butyldimethylsilyl protection in 6-position and p-methoxybenzyl protection at the 2-position. All of these compds. were fully characterized by high field <sup>1</sup>H and <sup>13</sup>C NMR and HPLC/MS.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD  
(5 CITINGS)  
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2002:402766 CAPLUS

DOCUMENT NUMBER: 137:232836

TITLE: Determination of the side-products formed during the  
nitroxide-mediated bleach oxidation of  
glucose to glucaric acid

AUTHOR(S): Ibert, Mathias; Marsais, Francis;  
Merbouh, Naby; Bruckner, Christian

CORPORATE SOURCE: UMR 1064-IRCOF-INSA de Rouen, Mont Saint Aignan,  
F-76131, Fr.

SOURCE: Carbohydrate Research (2002), 337(11), 1059-1063  
CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:232836

AB The side products formed in the TEMPO-mediated oxidation of glucose to  
glucaric acid were determined by GC. Next to glucaric acid, gluconic acid, the  
intermediate in the oxidation, the degradation products, oxalic acid, tartronic  
acid, meso- (erythraric) and DL-threarcic (tartaric) acid were detected.  
Chiral GC determined the dl-tartaric acid to be non-racemic mixts. of L- and  
D-tartaric acids, with inverse D/L-ratios depending on the oxidation of D- or  
L-glucose. The origin of all degradation products is rationalized. This  
study details a fast screening method to optimize the reaction conditions  
toward minimal degradation

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS  
RECORD (10 CITINGS)

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2001:780040 CAPLUS

DOCUMENT NUMBER: 136:184031

TITLE: Facile nitroxide-mediated oxidations of D-glucose to  
D-glucaric acid

AUTHOR(S): Merbouh, Naby; Francois Thaburet, Jean; Ibert,  
Mathias; Marsais, Francis; Bobbitt,  
James M.

CORPORATE SOURCE: Department of Chemistry, University of Connecticut,  
Storrs, CT, 06269-3060, USA

SOURCE: Carbohydrate Research (2001), 336(1), 75-78  
CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:184031

AB The oxidation of D-(+)-glucose to D-glucaric acid using the TEMPO-like  
nitroxide oxidation catalyst, 4-acetamido-2,2,6,6-tetramethyl-1-  
piperidinyloxy (4-acetamido-TEMPO) was carried out using several oxidizing  
agents and co-catalyst. The pH and temperature of the reactions were closely  
monitored to decrease degrdns. during the oxidation, and several isolation  
methods were explored.

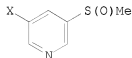
OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS  
RECORD (12 CITINGS)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2001:70812 CAPLUS  
 DOCUMENT NUMBER: 134:281053  
 TITLE: TEMPO-mediated oxidation of maltodextrins and D-glucose: effect of pH on the selectivity and sequestering ability of the resulting polycarboxylates  
 AUTHOR(S): Thaburet, Jean-Francois; Merboud, Naby; Ibert, Mathias; Marsais, Francis; Queguiner, Guy  
 CORPORATE SOURCE: Institut de Recherche en Chimie Organique Fine (IRCOF), UMR 6014 (CNRS), INSA of Rouen, Mont-Saint-Aignan, F-76131, Fr.  
 SOURCE: Carbohydrate Research (2001), 330(1), 21-29  
 CODEN: CRBRAT; ISSN: 0008-6215  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 134:281053  
 AB Maltodextrins were oxidized to poly-glucuronic acids with the ternary oxidation system: NaOCl-NaBr-2,2,6,6-tetramethylpiperidine-1-oxyl (TEMPO). The chemoselective oxidation at the primary alc. groups was shown to be strongly pH dependent. Oxidation of polysaccharides was best achieved at pH 9.5 in order to minimize depolymn., whereas oxidation of oligosaccharides required stronger alkaline conditions (pH 11-11.5). The resulting sodium polyglucuronates present interesting sequestering properties, the best of which being obtained from maltodextrins with the highest ds.p. The same oxidation process allowed the convenient conversion of D-glucose to D-glucaric acid in high yield (>90%), under strongly basic conditions (pH>11.5).  
 OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)  
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2010 ACS ON STN  
 ACCESSION NUMBER: 1992:448287 CAPLUS  
 DOCUMENT NUMBER: 117:48287  
 ORIGINAL REFERENCE NO.: 117:8607a,8610a  
 TITLE: Synthesis and behavior of NADH models bearing a chiral sulfoxide  
 AUTHOR(S): Boussad, N.; Trefouel, T.; Dupas, G.; Bourguignon, J.; Queguiner, G.  
 CORPORATE SOURCE: IRCOF, INSA, Mont Saint Aignan, 76131, Fr.  
 SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (1992), 66(1-4), 127-37  
 CODEN: PSSLEC; ISSN: 1042-6507  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 117:48287  
 GI



AB Chiral 3-sulfinyl-1,4-dihydropyridine derivs. I (X = H, Cl, OMe) were synthesized by asym. oxidation of the parent 3-pyridyl sulfides with Kagan's reagent [(Ti(OiPr)<sub>4</sub>-di-Et tartrate-H<sub>2</sub>O-Me<sub>3</sub>COOH (1:2:1:1)]. The chemoselective oxidation conditions of the sulfur atom were optimized. One chiral NADH mimic reagent so obtained was used in the reduction of prochiral

$\alpha,\alpha',\alpha''$ -trifluoroacetophenone. During this reduction a side reaction occurred, i.e., desulfonylation of the reagent and the byproduct was identified after trapping with Me propiolate; this side reaction did not occur in the quinoline series.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L23 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1991:607953 CAPLUS

DOCUMENT NUMBER: 115:207953

ORIGINAL REFERENCE NO.: 115:35485a,35488a

TITLE: Metalation of diazines. IV. Lithiation of sym-disubstituted pyrazines

AUTHOR(S): Turck, A.; Trohay, D.; Mojovic, L.; Ple, N.; Queguiner, G.

CORPORATE SOURCE: Lab. Chim. Org. Fine Heterocycl., INSA, Mont Saint Aignan, 76131, Fr.

SOURCE: Journal of Organometallic Chemistry (1991), 412(3), 301-10

CODEN: JORCAI; ISSN: 0022-328X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:207953

AB Conditions for the metalation of 2,6-dichloro- and 2,6-dimethoxypyrazine are defined and the lithio-derivs. are shown to react with some electrophiles. A convenient synthesis of a diazaxanthone from the lithio-derivative of the dichloro-compound is described. Couplings between phenylacetylene and iodo-derivs. of pyrazine have been carried out.

OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

L23 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1986:479073 CAPLUS

DOCUMENT NUMBER: 105:79073

ORIGINAL REFERENCE NO.: 105:12837a,12840a

TITLE: Electrochemical behavior of diphenyltin hydrides

AUTHOR(S): Feasson, Christian; Devaud, Marguerite

CORPORATE SOURCE: Inst. Natl. Super. Chim. Ind. Rouen, Mont Saint Aignan, 76130, Fr.

SOURCE: Journal of Chemical Research, Synopses (1986), (1), 6-7

CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

LANGUAGE: English/French

AB The electrochem. behavior of  $\text{Ph}_2\text{SnH}_2$  (I) and  $\text{Ph}_2\text{SnHCl}$  (II) was studied by polarog. and cyclic voltammetry. The effects of acids and bases, and the reduction of II and the oxidation of I at controlled potentials, were also studied. II was oxidized directly to I. II is highly unstable to acids and bases, and decomps. to a dimer in very mildly basic conditions, even with alcs. There is evidence for the formation from I of the octahedral complex  $[\text{Ph}_2\text{SnH}_2(\text{OH})_2]^{2-}$ , which is surprisingly stable in basic media.

L23 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1982:438865 CAPLUS

DOCUMENT NUMBER: 97:38865

ORIGINAL REFERENCE NO.: 97:6651a

TITLE: Synthesis of xanthenes and thioxanthenes having two heteroaromatic rings

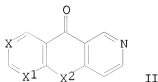
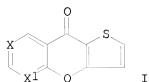
AUTHOR(S): Trecourt, Francois; Queguiner, Guy

CORPORATE SOURCE: Inst. Natl. Super. Chim. Ind. Rouen, Univ. Rouen, Mont Saint-Aignan, F-76130, Fr.

SOURCE: Journal of Chemical Research, Synopses (1982), (3), 76-7

DOCUMENT TYPE:  
LANGUAGE:  
OTHER SOURCE(S):  
GI

CODEN: JRPSDC; ISSN: 0308-2342  
Journal  
English/French  
CASREACT 97:38865



AB Addition reactions of (methylthio)- and methoxypyridinyl lithium with methoxythiophene- and methoxy- and (methylthio)pyridinecarboxaldehydes, oxidation of the resulting pyridylthiophenyl- and dipyridylmethanols, and then intramol. cyclocondensation gave xanthenes and thioxanthenes I (X  $\neq$  X1 = CH, N) and II (X = CH, X1 = N, X2 = O, S; X = N, X1 = CH, X2 = S) in 37-95% yield. The reaction mechanisms are discussed. The IR and <sup>1</sup>H NMR spectra of I and II are reported and discussed.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD  
(4 CITINGS)